

Patent Abstracts of Japan

PUBLICATION NUMBER : 07014616  
PUBLICATION DATE : 17-01-95

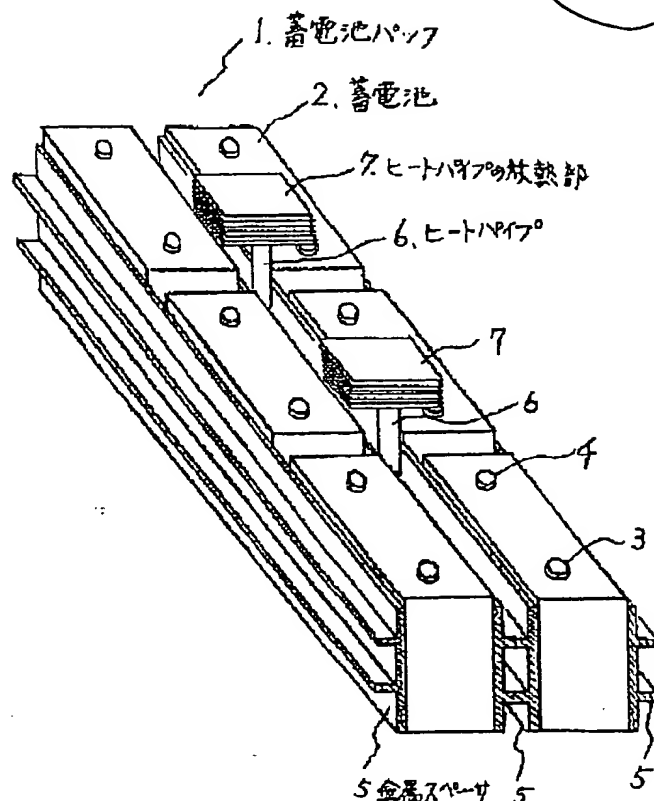
APPLICATION DATE : 23-06-93  
APPLICATION NUMBER : 05176181

APPLICANT : JAPAN STORAGE BATTERY CO LTD;

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INT.CL. : H01M 10/50 H01M 2/10

TITLE : STORAGE BATTERY PACK



ABSTRACT : PURPOSE: To effectively cool storage batteries constituting a storage battery pack by moving radiant heat from the container surface of each storage battery to a metallic spacer pressed against the container to unify the temperature difference between batteries, and by transporting the heat with a heat pipe in the form of latent heat.

CONSTITUTION: In a storage battery pack 1 fabricated by uniting plural storage batteries, a module battery 2 is formed with a battery assembly consisting of several or several tens batteries. The battery 2 and the heating part of heat pipe 6 are connected with a metallic spacer 5 with high heat-conductivity, and heat of the battery is moved to the heating part of the heat pipe with the spacer 5. An air flow path is generated between batteries to cool the battery. The pipe 6 is made of aluminium, for example, and the spacer 5 is brought into contact with the container surface of the battery 2 by applying pressure. The heat radiation part 7 of the pipe is formed in the form of fins to increase heat radiation effect.

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